PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03-F-087PCT	FOR FURTHER ACT	CION	See Form PCT/IPEA/416			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
		(30.10.2003)	30 October 2002 (30.10.2002)			
International Patent Classification (IPC) or national classification and IPC C22C 1/02, G06F 17/50						
Applicant NATIONAL INSTITUTE FOR MATERIALS SCIENCE						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total o	f 4 sheets, i	ncluding this cover	sheet.			
This report is also accompanied by						
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the						
Administrative Instruct						
4. This report contains indications re	lating to the following iten	ns:				
Box No. I Basis of the	report					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion	of this report			
05 April 2004 (05.0	4.2004)	25	August 2004 (25.08.2004)			
Name and mailing address of the IPEA/J	P	Authorized officer				
Facsimile No.		Telephone No.				

Translation

International application No.

PCT/JP2003/013928

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. I		asis of the report	
otherw	rise indi	o the language, this report is based on the international application in the language in which icated under this item.	1
	This re	eport is based on translations from the original language into the following language _ is language of a translation furnished for the purpose of:	
I	ir	nternational search (under Rules 12.3 and 23.1(b))	
	□ р	ublication of the international application (under Rule 12.4)	
	ii 🗍	nternational preliminary examination (under Rules 55.2 and/or 55.3)	
furnisi	hed to t	to the elements of the international application, this report is based on (replacemen the receiving Office in response to an invitation under Article 14 are referred to in this innexed to this report):	report as "originally filed"
		ternational application as originally filed/furnished	
		ecription:	
	pages		, as originally filed/furnished
t .	pages*	received by this Authority on	
	pages*	to all to all the Authority on	
	the cla		
🗀		illino.	, as originally filed/furnished
	pages	, as amended (together with a	ny statement) under Article 19
ļ	pages*	and but his Authority on	
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1	pages	. The stip Authority on	_
	pages'	received by this Authority on	
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	a sequ	nence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Lis	mig.
j			
3.	The a	mendments have resulted in the cancellation of:	
-		the description, pages	
1	H	the claims, Nos.	
	H	the drawings, sheets/figs	
	님		
	닐	the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
}			
4.	made	report has been established as if (some of) the amendments annexed to this report and e, since they have been considered to go beyond the disclosure as filed, as indicated e 70.2(c)).	listed below had not been in the Supplemental Box
1		the description, pages	
1		the claims, Nos.	
	Ħ	the drawings, sheets/figs	
	胃	the sequence listing (specify):	
Ì	\dashv	any table(s) related to sequence listing (specify):	
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* If it	tem 4 aj	pplies, some or all of those sheets may be marked "superseded."	

International application No.

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Box No. III	I Non-establishment of opinion with reg	ard to novelty, inventive step and industrial applicability
The question applicable	ions whether the claimed invention appears have not been examined in respect of:	to be novel, to involve an inventive step (to be non obvious), or to be industrially
t	the entire international application.	·
⊠ o	claims Nos. 1, 3-9, 11-14	
because:	•	• •
\boxtimes	the said international application, or the sair relate to the following subject matter which	does not require an international preliminary examination (specify):
Clain	ms 1, 3-9, and 11-14 are a compu	ter program, which does not require an international
prelimina	ary examination by the Internation	nal Preliminary Examining Authority.
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<u></u>		to want to law along to below) or said claims Nos
	are so unclear that no meaningful opinion	te particular elements below) or said claims Noscould be formed (specify):
	and bo discount discount discounting of the	
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		are so inadequately supported
	the claims, or said claims Nos. by the description that no meaningful opin	
		·
	no international search report has been es	ablished for said claims Nos
	the nucleotide and/or amino acid sequence. Administrative Instructions in that:	e listing does not comply with the standard provided for in Annex C of the
		has not been furnished
	the written form	
		does not comply with the standard
	the computer readable form	has not been furnished
		does not comply with the standard
	the tables related to the nucleotide and/or the technical requirements provided for in	amino acid sequence listing, if in computer readable form only, do not comply with Annex C-bis of the Administrative Instructions.
	see Supplemental Box for further details.	

International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	2, 10	YES		
	Claims		NO NO		
Inventive step (IS)	Claims		YES		
	Claims	2, 10	МО		
Industrial applicability (IA)	Claims	2, 10	YES		
	Claims		NO		

2. Citations and explanations (Rule 70.7)

Document 1: JP, 3-191032, A (NATIONAL RESEACH INSTITUTE FOR METALS), 21 August 1991 (21.08.91), claims & GB, 2241358, A

Document 2: "Ni-ki Chogokinchu no Hakkinzoku Genso no γ/γ' Sobunpai," (YOKOKAWA ET AL.), Nippon Kinzoku Gakkaishi, September 2002, Vol. 66, No. 9, pages 873-876

Document 3: "Dai 4 Sedai Ni-ki Ichihoko Gyoko Chogokin no Sekkei," (KOBAYASHI, ET AL.), Nippon Kinzoku Gakkaishi, September 2002, Vol. 6, No. 9, pages 897-900

Document 4: JP, 2002-146460, A (DOKURITSU GYOSEI HOJIN BUSSHITSU – ZAIRYO KENKYU KIKO), 22 May 2002 (22.05.02), claims & EP, 1184473, A2 & US, 2002-62886, A1

Document 5: JP, 5-5143, A (GENERAL ELECTRIC COMPANY), 14 January 1993 (14.01.93), claims & EP, 434966, A1 & US, 5151249, A1 & CA, 2029539, A1

Document 6: HARADA, H et al., "Phase Calculation and Its Use in Alloy Design Program for Nickel-Superalloys," Superalloys 1988, 1988, pages 733-742

Claims 2 and 10

The subject matter of claims 2 and 10 does not involve an inventive step on account of documents 1-6 cited in the ISR. The γ ' precipitation strengthened Ni-based superalloy design support device described in documents 1 and 6 and the γ ' precipitation strengthened Ni-based superalloy with added platinum-group elements such as Ru described in documents 2-5 belong to closely related technical fields, so employing the γ ' precipitation strengthened Ni-based superalloy design support device described in documents 1 and 6 in the γ ' precipitation strengthened Ni-based superalloy with added platinum-group elements described in documents 2-5 could easily be conceived by a person skilled in the art.